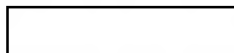


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**BASIC IMAGERY
INTERPRETATION
REPORT**

MOSKVA SCIENTIFIC RESEARCH INSTITUTE

NII BOLSHEVO 4



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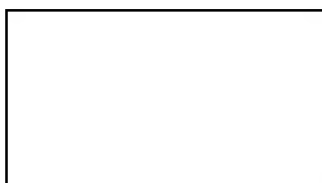
STRATEGIC WEAPONS INDUSTRIAL FACILITIES

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Moskva Scientific Research Institute NII Bolshevo 4

UR

UTM COORDINATES

GEOGRAPHIC COORDINATES

NA

555632N 0375054E

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MAP REFERENCE

US Air Target Chart, Series 200, Sheet M0167-5HL, 3rd ed, Jul 67, scale 1:200,000

(SECRET)

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LATEST IMAGERY USED

NEGATION DATE (If required)

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NA

ABSTRACT

1. Moscow Scientific Research Institute NII Bolshevo 4 (NII 4) has a significant role in the Soviet missile and space research and development program. Photographic evidence indicates that NII 4 has been involved in electronics and rocket engine research and development programs.

2. Moscow Scientific Research Institute NII Bolshevo 4 consists of three distinct areas: the research and development area, the storage area, and the housing area. Estimated total floorspace of the major structures in the research and development area is [REDACTED]

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3. This report is based on available photography from [REDACTED] and contains a photograph, line drawing, and textual discussion of all areas of the institute.

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INTRODUCTION

4. Moscow Scientific Research Institute NII Bolshevo 4 (NII 4) is situated on flat terrain in a residential area of the Moscow suburb of Bolshevo. The institute is 2.4 nautical miles (nm) northeast of Moscow Missile and Space Development Center Kaliningrad 88 [REDACTED] and 14 nm from the center of Moscow (Figure 1). NII 4 probably works closely with Kaliningrad 88. The institute may also work with other Moscow-area aerospace installations, including Moscow Electronics Research Institute Novaya NII 885 ([REDACTED])

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BASIC DESCRIPTION

5. Moscow Scientific Research Institute NII Bolshevo 4 has a significant role in the Soviet missile and space research and development program.¹ Photographic evidence indicates that NII 4 is involved in electronics and rocket engine research and development programs.

6. The institute may be divided into three distinct areas. These are the research and development area, the storage area, and the housing area (Figures 2 and 3).

Research and Development

7. The research and development area covers approximately 110 acres and contains 61 major buildings. Estimated floorspace of the major buildings in the research and development area (Table 1) is [REDACTED]

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8. NII 4 provides an enormous amount of space for engineering research. Fifteen large engineering buildings are present in the research and development area. Additionally, engineering research is probably conducted in sections of several other buildings. Two large probable engineering buildings (Table 1 and Figure 3, items 14 and 15) were in an early stage of construction in [REDACTED]

9. Several shops and shop and assembly buildings are also present in the research and development area. These buildings are probably used to produce full-scale and scale-model hardware developed by the research and development programs.

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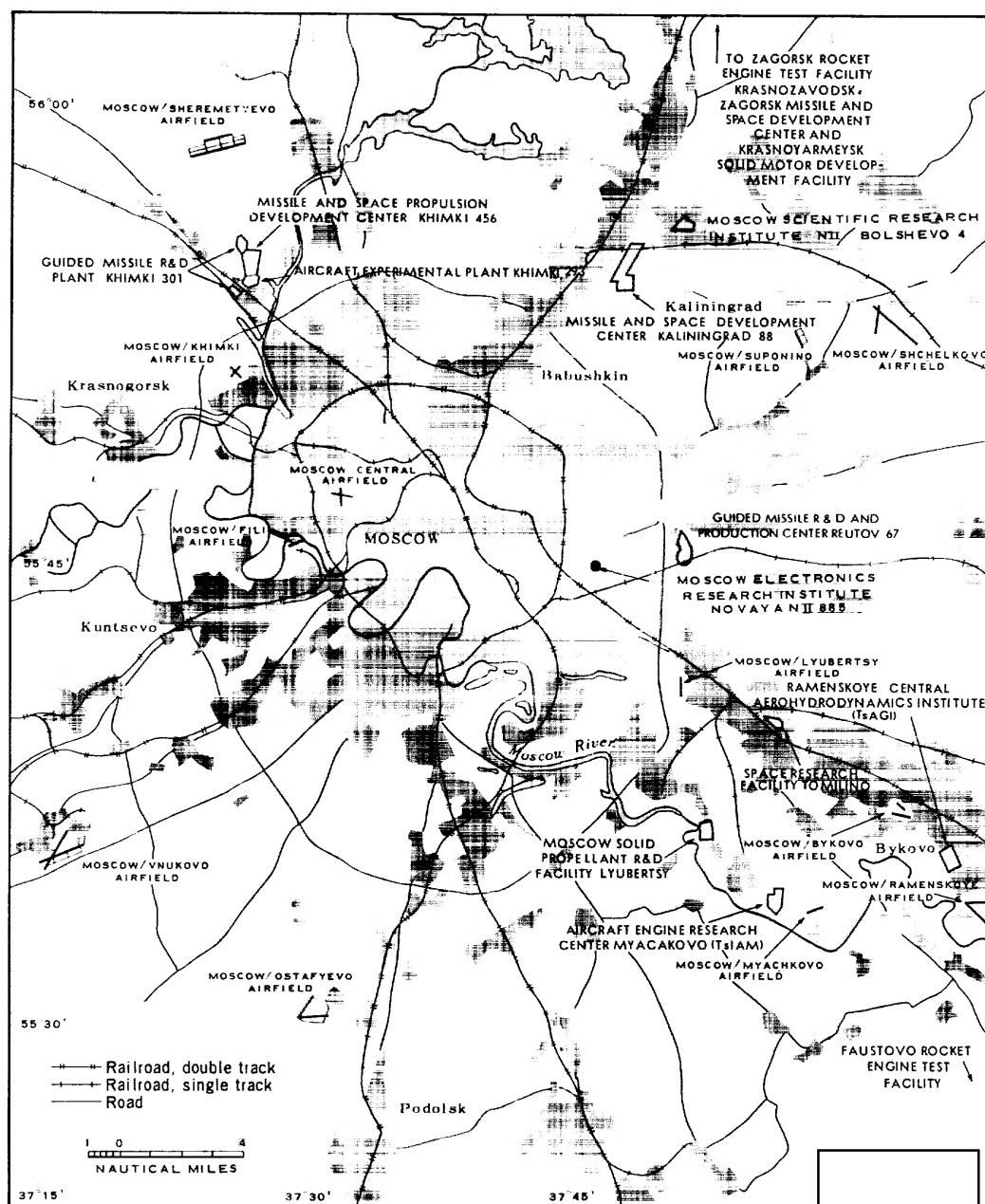


FIGURE 1. LOCATION OF MOSCOW SCIENTIFIC RESEARCH INSTITUTE NII BOLSHEVO 4

Possible Horizontal Test Building

10. A former resident of Bolshevo reported the existence of facilities within the institute grounds for the testing of rocket engines.¹ Item 10 of Table 1 and Figure 3 is identified as a possible horizontal test building for the testing of small liquid propellant rocket engines. Section b of this building is similar in appearance to horizontal test building 1 at the Zagorsk Rocket Engine Test Facility Krasnozavodsk [REDACTED]. The NII 4 building section is [REDACTED], and the Zagorsk building is [REDACTED]. Pre-fire and post-fire checkout of the engines tested may take place in section c of this building. A hard-surfaced apron, surrounded by a wall, is to the rear of section b and may be a blast deflector.

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Table 1. Research and Development Area (Item numbers keyed to Figure 3)

Item Number	Description or Probable Function	Dimensions (Meters)			Dimensions (Feet)			Estimated Floorspace		Year First Observed Complete	Comments
		Length	Width	Height	Length	Width	Height	Square Meters	Square Feet		
1	Unidentified structure									1962	
2	Sensitive operations bldg									1962 or 1963	Security wall with guard towers and indirect road approach to building indicate the building is involved in particularly sensitive operations.
3	Shop									1962	
4	Engineering bldg (5 story)									1965	
5	Engineering bldg (2 story)									1962	
6	Unidentified structure									1962 or 1963	
7	Unidentified structure									1962 or 1963	
a											
b											
8	Support bldg									1962 or 1963	
9	Electronics bldg									1962 or 1963	
a	Engineering section (5 story)										
b	Antenna base										
c	Unidentified section										
d	Unidentified section (2 story)										
e	Environmental cover										
f	Environmental cover										
g	Environmental cover										
10	Possible horizontal test bldg										
a	Unidentified section									1962 or 1963	Overall total dimensions
b	Test section										
c	Possible checkout section										
11	Engineering bldg (4 story)									1968	
12	Engineering bldg (3 story)									1942	
13	Engineering bldg (3 story)									1942	
14	Foundation									U/C	Approximate dimensions. Foundation not apparent on Figure 2. Structure probably will be an engineering building
15	Foundation									U/C	Approximate dimensions. Foundation not apparent on Figure 2. Structure probably will be an engineering building
16	Shop									1962	
17	Shop									1962	
a	Shop										
b	Administration/engineering										
18	Post laboratory (3 story)									1962 or 1963	
19	Engineering bldg (5 story)									1962 or 1963	
20	Shop									1962 or 1963	
21	Shop and assembly bldg									1962 or 1963	
a	Shop and assembly section									1962	
b	Administration/engineering section (2 story)										
22	Unidentified structure									1962 or 1963	
23	Unidentified structure									1962 or 1963	
24	Shop									1962 or 1963	
25	Unidentified structure									1962	Floorspace is approximate. Two tall stacks are immediately north of the building
26	Woodworking shop										
27	Woodworking shop									1962	
28	Support bldg									1962 or 1963	
29	Shop									1962	
a	Shop section									1962 or 1963	
b	Administration/engineering section (2 story)										
30	Support bldg									1962 or 1963	
31	Storage bldg									1962 or 1963	
32	Unidentified structure									1962 or 1963	
33	Shop									1962 or 1963	
34	Support bldg									1962 or 1963	
35	Support bldg									1962 or 1963	
36	Support bldg									1962 or 1963	
37	Administration/engineering									1962 or 1963	
38	Administration									1962	
39	Administration									1962 or 1963	
40	Administration/engineering									1962 or 1963	
41	Administration/engineering (2 story)									1962 or 1963	
42	Administration/engineering									1962 or 1963	
43	Engineering (3 story)									1942	
44	Administration/engineering (3 story)									1962 or 1963	
45	Unidentified structure									1962 or 1963	
46	Shop									1942	
47	Administration									1942	
48	Engineering (4 story)									1942	
49	Unidentified structure									1962	
50	Cafeteria									1966	
51	Steam plant									1942	
52	Administration									1942	
53	Guardhouse									1942	
54	Engineering									1942	
55	Engineering (prob 4 story)									1962	
56	Engineering (prob 4 story)									1962	
57	Engineering									1962	
58	Engineering (prob 5 story)									1962	
59	Engineering									1970	
60	Engineering (4 story)									1962	
61	Administration									1962	

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Electronics Building

11. The presence of a building with three varying size environmental covers on the roof (Table 1 and Figure 3, item 9) and the research and development role of the institute indicate that NII 4 is also involved in antenna development. The electronics building was probably present in 1962 when the institute was first observed on [] photography. The environmental covers have diameters of []. The sizes of these environmental covers cannot be associated with any known deployed antenna. Several different antennas or antenna modifications may have been tested under each of the covers since the building was constructed.

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Storage Area and Housing Area

13. The storage area consists of 27 buildings in an area of 24 acres. The area provides [] of floorspace (Table 2). The housing area contains 28 major buildings providing [] of floorspace (Table 3). A large recreation area is immediately southwest of the housing area.

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Chronology

14. Moscow Scientific Research Institute NII Bolshevo 4 was observed on []. The research and development area then consisted of 11 major buildings containing [] of floorspace. Additionally, three buildings were present in the housing area, and two buildings were present in the area which is now the storage area.

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15. Most of the buildings present at NII 4 were constructed between 1942 and 1962. A total of [] of floorspace was added during this period. Since 1962, 21,870 square meters (235,321 square feet) of floorspace have been added to the research and development area. Two large probable engineering buildings were in an early stage of construction in [].

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Essential Services and Security

16. Moscow Scientific Research Institute NII Bolshevo 4 is served by the Moscow area road pattern and by rail spurs which enter the research and development area and the storage area. Electricity is supplied from the Moscow power grid, and heat is at least partially supplied by a steamplant (Table 1 and Figure 3, item 51) within the institute grounds. A wall with gates surrounds the institute. Other areas within the institute are either partially secured or completely secured by walls.

Table 2. Storage Area (Item numbers keyed to Figure 3)

Item Number	Description or Probable Function	Dimensions (Meters)			Dimensions (Feet)			Estimated Square Meters
		Length	Width	Height	Length	Width	Height	
1	Warehouse							
2	Warehouse							
3	Warehouse							
4	Warehouse							
5	Warehouse							
6	Warehouse							
7	Warehouse							
8	Warehouse							
9	Warehouse							
10	Warehouse							
11	Administration (2 story)							
12	Warehouse							
13	Poss motor pool							
14	Warehouse							
15	Warehouse							
16	Foundation							
17	Warehouse							
18	Warehouse							
19	Warehouse							
20	Warehouse							
21	Warehouse							
22	Warehouse							
23	Warehouse							
24	Warehouse							
25	Warehouse							
26	Warehouse							
27	Warehouse							
28	Warehouse							

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Table 3. Housing Area (Item numbers keyed to Figure 3)

Table 1: Dimensions of Structures (continued from Figure 3)									
Item Number	Description or Probable Function	Dimensions (Meters)			Dimensions (Feet)			Estimated Square Meters	
		Length	Width	Height	Length	Width	Height		
1	Administration								
2	Housing								
3	Housing								
4	Administration								
5	Housing								
6	Housing								
7	Housing								
8	Housing								
9	Housing								
10	Housing								
11	Housing								
12	Housing								
13	Housing								
14	Administration								
15	Housing								
16	Housing								
17	Housing								
18	Housing								
19	Housing								
20	Housing								
21	Housing								
22	Housing								
23	Housing								
24	Housing								
25	Housing								
26	Housing								
27	Housing								
28	Unidentified structure								

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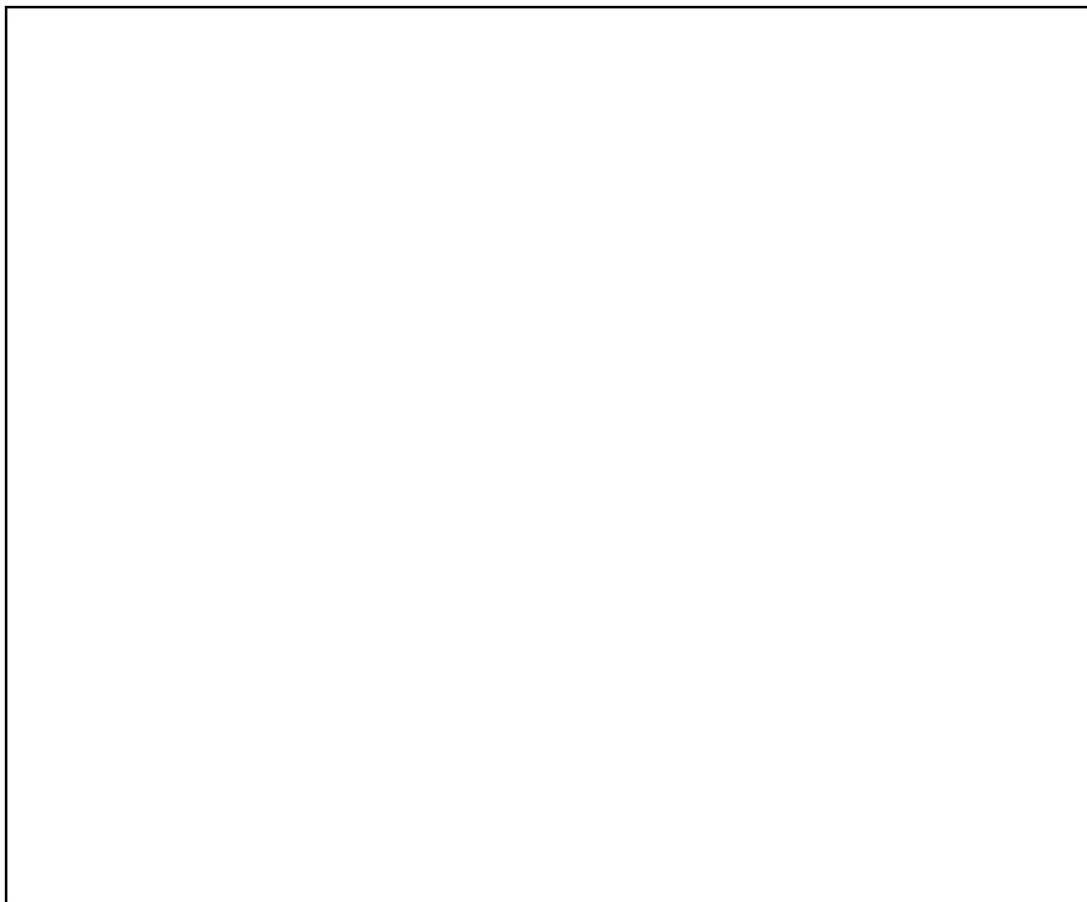
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REFERENCES



MAPS OR CHARTS

US Air Target Chart, Series 200, Sheet M0167-5HL, 3d ed, Jul 67, scale 1:200,000 (SECRET/

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2. NSA *First Evidence of an Association Between the Soviet Space Event Support Ships and the Academy of Sciences, USSR, and Scientific Research Institute [NII] 4, Bolshevo*, 26 Jan 66 (TOP SECRET CODEWORD)

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